

# BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **T21292**

Audit Date: **12/7/17**

Audited By: **M. Potter**

## Flow Audits

Flow Reference Standard Used:	Model: <b>BGI Delta G1</b>	Serial No: <b>146294</b>	Calibration Date: <b>9/26/17</b>
Temperature Standard Used:	Model:	Serial No:	Calibration Date:
Barometric Pressure Standard Used:	Model:	Serial No:	Calibration Date:

Leak Check Value: as found: **0.9 lpm** as left: **0.6 lpm**

Ambient Temperature:	as found:	<b>-2.8 C</b>	Ref. Std.	<b>-2.7 C</b>	as left:	<b>-2.8 C</b>	Ref. Std.	<b>-2.7 C</b>	N/A <input type="checkbox"/>
Barometric Pressure:	as found:	<b>750 mmHg</b>		<b>750.3 mmHg</b>	as left:	<b>750 mmHg</b>		<b>750.3 mmHg</b>	N/A <input type="checkbox"/>
Flow Rate (Actual Volumetric):	as found:	<b>16.7 lpm</b>		<b>14.7 lpm</b>	as left:	<b>16.7 lpm</b>		<b>14.7 lpm</b>	N/A <input type="checkbox"/>
Flow Rate (EPA Standard):	as found:				as left:				N/A <input type="checkbox"/>

## Mechanical Audits

Pump muffler unclogged:	as found	<input checked="" type="checkbox"/>	as left	<input type="checkbox"/>	PM10 particle trap clean:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Sample nozzle clean:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM10 drip jar empty:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Tape support vane clean:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM10 bug screen clear:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Capstan shaft clean:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM2.5 particle trap clean:	as found	<input type="checkbox"/>	as left	<input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Rubber pinch rollers clean:	as found	<input type="checkbox"/>	as left	<input checked="" type="checkbox"/>	Inlet tube water-tight seal OK:	as found	<input checked="" type="checkbox"/>	as left	<input type="checkbox"/>	
Chassis ground wire installed:	as found	<input checked="" type="checkbox"/>	as left	<input type="checkbox"/>	Inlet tube perpendicular to BAM:	as found	<input checked="" type="checkbox"/>	as left	<input type="checkbox"/>	

## Analog Voltage Output Audit

N/A ☐

DAC Test Screen	BAM Voltage Output	Logger Voltage Input
0.000 Volts	Volts	Volts
0.500 Volts	Volts	Volts
1.000 Volts	Volts	Volts

## Membrane Audit

LAST m (mg):	
ABS (mg):	
Difference (mg):	
% Difference:	

## Flow Control Range

Flow Setpoint	BAM Flow
15.0 LPM	
16.7 LPM	
18.4 LPM	

## Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock Time/Date			FLOW TYPE			AP		
RS232 baud			Cv			FRI		
STATION #			Qo			FRh		
RANGE			ABS			Password		
BAM SAMPLE			μ sw			Cycle Mode		
MET SAMPLE			K Factor			RH Control		
OFFSET			BKGD			RH Setpoint		
CONC UNITS			STD TEMP			Datalog RH		
COUNT TIME			HEATER			Delta-T Control		
FLOW RATE			e1			Delta-T Setpoint		
CONC TYPE			Errors			Datalog Delta-T		

## Last 6 Errors in BAM-1020 Error Log

Error	Date	Time	Error	Date	Time
1 Maintenance	12/7/17	17:08	4 Power Fail	11/24/17	8:33
2 Power Fail	11/24/17	11:21	5 Power Fail	11/24/17	8:35
3 Power Fail	11/24/17	8:35	6 Power Fail	11/24/17	8:35

Audit Notes: **RS-232 unplugged upon arrival. System running on arrival. Type Test & 2k pass. Data Downloaded, Weather data downloaded. Clocks were synced.**